

# Tarun Vinodh Kumar

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## EDUCATION

### Lakehead University

M.S. in Computer Science

Thunder Bay, Ontario

Expected Graduation, August 2025

- **GPA:** 3.5/4.00
- **Relevant Coursework:** Big Data, Natural Language Processing, Computer Networks.

### Panimalar Engineering College

B.E Computer Science and Engineering

Chennai, India

August 2019 - May 2023

- **CGPA:** 9.29/10.00
- **Relevant Coursework:** Artificial Intelligence, Data Structures, DBMS, Computer Networks and Algorithms.

## EXPERIENCE

### The Intern Academy

Web Designer

Chennai, India

October 2021 – November 2021

- Collaborated with clients to understand their requirements and translate them into technical specifications, ensuring alignment with strategic initiatives.
- Created a user-friendly UI design for an online educational course platform, focusing on enhancing user experience through intuitive design.
- Applied data visualization techniques to improve interface intuitiveness and engagement, utilizing HTML, CSS, JavaScript, Bootstrap, and React.js.

### The Sparks Foundation

Web Developer

Chennai, India

August 2021- September 2021

- Developed and deployed payment gateway systems on websites, ensuring robust data handling and security, aligned with project requirements.
- Conducted data analysis to optimize transaction processes and improve system performance, utilizing React.js, Node.js, and MongoDB.

## PROJECTS

### Depression Detection System using ML

Thunder Bay, Ontario

- Created a model that detects depression using Natural Language Processing (NLP), analyzing user text to identify patterns and indicators of depression.
- Applied data extraction, transformation, and loading (ETL) processes to handle diverse data types and ensure accurate model training.
- Carried out thorough unit testing, leveraging automated unit testing frameworks to ensure the accuracy and performance of the model.

### Movie Recommendation System using PySpark

Thunder Bay, Ontario

- Developed a movie recommender system utilizing Python, Scikit-learn, PySpark, and Natural Language Processing.
- Implemented supervised learning algorithms to suggest movies based on user input, improving user experience with data-driven insights.
- Performed complex data analysis on large datasets to optimize recommendation accuracy.

### Personal Expense Tracker

Chennai, India

- Mentored by IBM, this project involved developing a web application to track personal expenses, leveraging IBM Cloud, Docker, and Kubernetes.
- Designed and built data solutions to update wallet balances based on user expenses, providing real-time financial insights.
- Applied web development skills to create an intuitive user interface for managing monthly expenses.

### Infection-Rate-Visualization-of-COVID-19-in-IND

Chennai, India

- Built a comprehensive data visualization platform using Tableau to track and display COVID-19 infection rates across India, providing critical insights into the pandemic's progression.
- Utilized data warehouse concepts and methodologies to aggregate, clean, and manage large datasets from multiple sources, ensuring data accuracy and reliability.

## SKILLS

**Programming:** Python, JavaScript, C++, SQL, MongoDB, PostgreSQL, HTML, CSS, Algorithms, React.js, Node.js and Express.js.

**Tools:** Jupyter Notebook, Git, GitHub, MYSQL Workbench, MS Office, Docker, Kubernetes, Amazon SageMaker, Tableau, Hadoop, Spark, Visual Studio Code and Selenium.